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In re Patent Application of: Andrei Starodoumov

Atty Docket No. COHV-5250

Application No.: 10/774,743

Filed: February 9, 2004

Confirmation No.: 9208

For: OPTICAL FIBER COUPLING ARRANGEMENT

M/S AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Transmittal herewith is an amendment in the above-identified application.

The fee has been calculated as shown below.

| | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NO. PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE | ADDITIONAL FEE |
|---|---|-------|---------------------------------------|------------------|-----------|-------------------|
| TOTAL | 27 | MINUS | 27 | 0 | x \$50 = | \$0 |
| INDEP. | 6 | MINUS | 6 | 0 | x \$200 = | \$0 |
| FIRST PRESENTATION OF MULTIPLE DEP CLAIMS | | | | | + \$360 | \$0 |
| TOTAL | | | | | | \$0 |

Small Entity 50% Filing Fee Reduction (if applicable)

\$0

- * If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.)

- ☒ No additional fee is required.
- ☐ A check in the amount of \$_____ is attached.
- ☒ Please charge any additional fees, including any fees necessary for extensions of time or credit overpayment to Deposit Account No. 50-1703, under Order No. 50-1703.
A duplicate copy of this sheet is enclosed.
- ☒ Petition for extension of time. The undersigned attorney of record hereby petitions for an extension of time pursuant to 37 C.F.R. § 1.136(a), as may be required, to file this response.

STALLMAN & POLLOCK LLP

Dated: November 28, 2005

By:

Michael A. Stallman (Reg. No. 29,444)
Attorneys for Applicant(s)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 28, 2005.

Dated: November 28, 2005

By:

Georgia K Stith

10/774,743



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Andrei Starodoumov

Application No.: 10/774,743

Filed: February 9, 2004

For: OPTICAL FIBER COUPLING
ARRANGEMENT

Confirmation No.: 9208

Group Art Unit: 3663

Examiner: Ari M. Diacou

**RESPONSE TO OFFICE ACTION
MAILED SEPTEMBER 14, 2005**

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M/S AMENDMENT

Commissioner for Patents

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STALLMAN & POLLOCK LLP

Dated: 11/28/2005

By:

Georgia K. Stith

Sir:

In response to the Office Action dated September 14, 2005, applicant responds as follows:

REMARKS

The subject invention relates to an improved approach for pumping a fiber amplifier. The fiber amplifier has a design similar to that in the prior art wherein a doped core is surrounded by at least one cladding. Pump light is injected into the cladding. The pump light propagates along the cladding and a portion thereof is absorbed into the doped core. The pump light acts to excite the doped core to emit light of a different wavelength. In one example from the specification, laser diode light at 915nm is used to pump a YB-doped fiber core to generate light at 976nm (see page 14, line 27+)

In the prior art designs, some of the pump light traveling down the cladding of the fiber will not be absorbed in the core. This represents wasted pump light. This problem is addressed in the subject invention by providing a "recovery fiber." As seen for example in Figure 6a, a

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